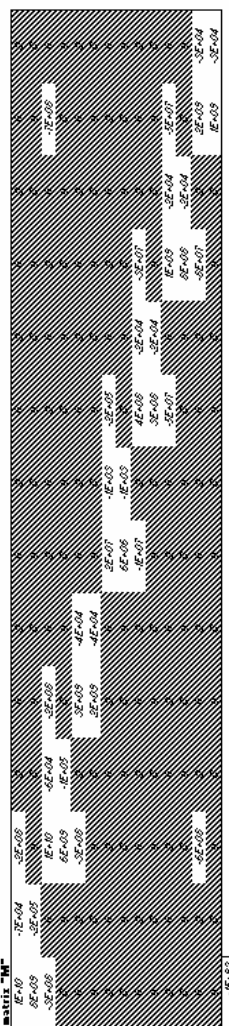

1.9 APPENDIX

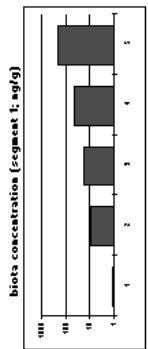
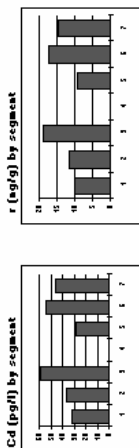
STEADY-STATE MODEL OUTPUT FOR EACH TOXIC CHEMICAL

[illegible]

flow-specific input		chemical-specific input		calculated parameters	
divisor _{flow}	Q ₁ 414	log_Kov	6.00	log_Kov	6.36
diversion	Q ₁ 414	HK	1280	fkw _{w,1}	0.639
	Q ₂ 1036	Vp	132E-03	fkw _{w,2}	0.639
	Q ₃ 1193	K ₁ 2.64		fkw _{w,3}	0.639
	Q ₄ 163	K ₂ 337		fkw _{w,4}	0.0695
	Q ₅ 163			fkw _{w,5}	0.069
	Q ₆ 378			fkw _{w,6}	0.424
	Q ₇ 383			fkw _{w,7}	0.582
exchange _{flow}	Q ₁ 414	K ₁ 0		fkw _{w,8}	0.582
	Q ₂ 1036	K ₂ 5.00E-04		fkw _{w,9}	0.501
	Q ₃ 1193	FW 0		fkw _{w,10}	0.501
	Q ₄ 163	FW 1		fkw _{w,11}	0.637
	Q ₅ 163	FW 2		fkw _{w,12}	0.558
	Q ₆ 378	FW 3		fkw _{w,13}	0.584
	Q ₇ 383	FW 4		fkw _{w,14}	0.279
	Q ₈ 400	FW 5		fkw _{w,15}	0.0006
	E ₂₇ 7430	FW 6		fkw _{w,16}	0.0006
		FW 7		fkw _{w,17}	0.0006
		FW 8		fkw _{w,18}	0.371
		FW 9		fkw _{w,19}	0.589
		FW 10		fkw _{w,20}	0.682
		FW 11		fkw _{w,21}	0.639
		FW 12		fkw _{w,22}	6.43E-05
		FW 13		fkw _{w,23}	6.43E-05
		FW 14		fkw _{w,24}	6.43E-05
		FW 15		fkw _{w,25}	6.43E-05
		FW 16		fkw _{w,26}	6.43E-05
		FW 17		fkw _{w,27}	6.43E-05
		FW 18		fkw _{w,28}	0.589
		FW 19		fkw _{w,29}	0.589
		FW 20		fkw _{w,30}	0.589
		FW 21		fkw _{w,31}	0.589
		FW 22		fkw _{w,32}	1.78E-04
		FW 23		fkw _{w,33}	1.78E-04
		FW 24		fkw _{w,34}	1.78E-04
		FW 25		fkw _{w,35}	1.78E-04
		FW 26		fkw _{w,36}	1.78E-04
		FW 27		fkw _{w,37}	1.78E-04
		FW 28		fkw _{w,38}	1.78E-04
		FW 29		fkw _{w,39}	1.78E-04
		FW 30		fkw _{w,40}	1.78E-04
		FW 31		fkw _{w,41}	1.78E-04
		FW 32		fkw _{w,42}	1.78E-04
		FW 33		fkw _{w,43}	1.78E-04
		FW 34		fkw _{w,44}	1.78E-04
		FW 35		fkw _{w,45}	1.78E-04
		FW 36		fkw _{w,46}	1.78E-04
		FW 37		fkw _{w,47}	1.78E-04
		FW 38		fkw _{w,48}	1.78E-04
		FW 39		fkw _{w,49}	1.78E-04
		FW 40		fkw _{w,50}	1.78E-04
		FW 41		fkw _{w,51}	1.78E-04
		FW 42		fkw _{w,52}	1.78E-04
		FW 43		fkw _{w,53}	1.78E-04
		FW 44		fkw _{w,54}	1.78E-04
		FW 45		fkw _{w,55}	1.78E-04
		FW 46		fkw _{w,56}	1.78E-04
		FW 47		fkw _{w,57}	1.78E-04
		FW 48		fkw _{w,58}	1.78E-04
		FW 49		fkw _{w,59}	1.78E-04
		FW 50		fkw _{w,60}	1.78E-04
		FW 51		fkw _{w,61}	1.78E-04
		FW 52		fkw _{w,62}	1.78E-04
		FW 53</			

[illegible]

chemical concentration vector (μg/L)	Cd (pg/L)		r (μg/L)
	1	2	
C_w1 1.43E-05	314	162	16.2
C_w2 1.23E-05	238	96.9	9.69
C_w3 3.59E-05	3	55.3	16.9
C_w4 4.45	3	269	16.7
C_w5 7.61E-06	4	0.559	0.162
C_w6 0.0416	4	2.65	0.172
C_w7 1.43E-04	5	2.65	9.32
C_w8 5.21	5	142	9.19
C_w9 1.03E-04	6	53.7	17.4
C_w10 4.16	6	256	16.2
C_w11 3.06E-05	7	4.16	16.2
C_w12 5.64	7	238	16.7

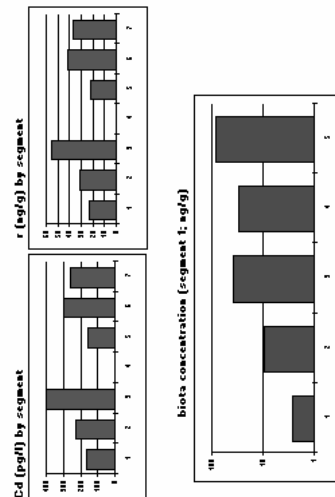
[illegible]

1	2	3	4	5
6	7	8	9	10

Site	Biota concentration (µg/g)
1	~10
2	~35
3	~45
4	~65
5	~85

[illegible]

Estimated parameters

[illegible]

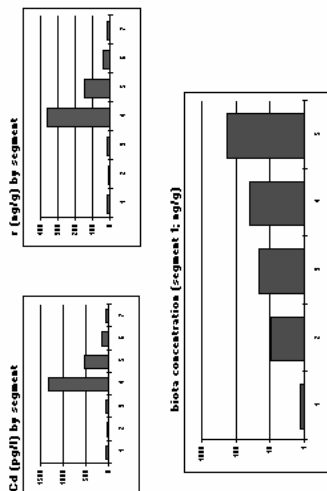
3 5 7 9 11

system-specific input
flux(mg/d):
 Q₁ 474
 diversion 931
 Q₂ 1036
 K₁ 2.14
 Q₃ 183
 Q₄ 183
 Q₅ 379
 Q₆ 379
 Q₇ 383
exchanged(mg/d):
 E₁₈ 2770
 E₂₃ 2770
 E₃₁ 1893
 E₄₅ 2.6
 E₅₈ 400
 E₆₁ 600
 E₆₁ 1450
atmosphere:
 A₁ 2.61E+10
 A₂ 2.11E+10
 A₃ 7.43E+09
 A₄ 6.58E+06
 A₅ 3.80E+06
 A₆ 1.42E+09
 A₇ 2.83E+09
settling(mg/d):
 v_{s1} 1.15
 v_{s2} 1.15
 v_{s3} 1.15
 v_{s4} 1.15
 v_{s5} 1.15
 v_{s6} 1.15
 v_{s7} 1.15
deposition(mg/d):
 v_{d1} 3.08E+06
 v_{d2} 2.63E+06
 v_{d3} 3.42E+07
 v_{d4} 1.64E+05
 v_{d5} 3.48E+07
 v_{d6} 5.19E+07
 v_{d7} 1.19E+07
solid(mg/d):
 M₁ 0.83
 M₂ 0.83
 M₃ 0.83
 M₄ 28
 M₅ 8.42
 M₆ 2.48
 M₇ 1.48
 M_{sed} 240000
fraction DEC:
 f_{oc1} 0.178
 f_{oc2} 0.178
 f_{oc3} 0.178
 f_{oc4} 0.178
 f_{oc5} 0.178
 f_{oc6} 0.178
 f_{oc7} 0.178
sediment DEC porosity:
 p_{sed} 0.3
partitioning parameters:
 K_{oc} 5.65
 K_{oc} 0.03
 b_{oc1} 0.81

chemical-specific input
calculated parameters
 log₁₀ K_{oc} 5.65
 f_{oc1} 0.81
 f_{oc2} 0.81
 f_{oc3} 0.81
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 f_{oc530} 0.81
 f_{oc531} 0.81
 f_{oc532} 0.81
 f_{oc533} 0.81
 f_{oc534} 0.81
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 f_{oc538} 0.81
 f_{oc539} 0.81
 f_{oc540} 0.81
 f_{oc541} 0.81
 f_{oc542} 0.81
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 f_{oc546} 0.81
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 f_{oc558} 0.81
 f_{oc559} 0.81
 f_{oc560} 0.81
 f_{oc561} 0.81
 f_{oc562} 0.81
 f

chemical-specific input		calculated parameters	
diversity	Q ₁ 474	log ₁₀ K _{ow}	6.09
	diversity 35.1	Hk	18.5
	Q ₂ 1036	Idw ₁	0.1778
	Q ₃ 1153	Vp	0.0283
	Q ₄ 163	Ki	3.07
	Q ₅ 163	Kg	312
	Q ₆ 379		
	Q ₇ 383		
	Q ₈ 177E-05		
	Q ₉ 177E-05		
	Q ₁₀ 177E-05		
	Q ₁₁ 177E-05		
	Q ₁₂ 177E-05		
	Q ₁₃ 177E-05		
	Q ₁₄ 177E-05		
	Q ₁₅ 177E-05		
	Q ₁₆ 177E-05		
	Q ₁₇ 177E-05		
	Q ₁₈ 177E-05		
	Q ₁₉ 177E-05		
	Q ₂₀ 177E-05		
	Q ₂₁ 177E-05		
	Q ₂₂ 177E-05		
	Q ₂₃ 177E-05		
	Q ₂₄ 177E-05		
	Q ₂₅ 177E-05		
	Q ₂₆ 177E-05		
	Q ₂₇ 177E-05		
	Q ₂₈ 177E-05		
	Q ₂₉ 177E-05		
	Q ₃₀ 177E-05		
	Q ₃₁ 177E-05		
	Q ₃₂ 177E-05		
	Q ₃₃ 177E-05		
	Q ₃₄ 177E-05		
	Q ₃₅ 177E-05		
	Q ₃₆ 177E-05		
	Q ₃₇ 177E-05		
	Q ₃₈ 177E-05		
	Q ₃₉ 177E-05		
	Q ₄₀ 177E-05		
	Q ₄₁ 177E-05		
	Q ₄₂ 177E-05		
	Q ₄₃ 177E-05		
	Q ₄₄ 177E-05		
	Q ₄₅ 177E-05		
	Q ₄₆ 177E-05		
	Q ₄₇ 177E-05		
	Q ₄₈ 177E-05		
	Q ₄₉ 177E-05		
	Q ₅₀ 177E-05		
	Q ₅₁ 177E-05		
	Q ₅₂ 177E-05		
	Q ₅₃ 177E-05		
	Q ₅₄ 177E-05		
	Q ₅₅ 177E-05		
	Q ₅₆ 177E-05		
	Q ₅₇ 177E-05		
	Q ₅₈ 177E-05		
	Q ₅₉ 177E-05		
	Q ₆₀ 177E-05		
	Q ₆₁ 177E-05		
	Q ₆₂ 177E-05		
	Q ₆₃ 177E-05		
	Q ₆₄ 177E-05		
	Q ₆₅ 177E-05		
	Q ₆₆ 177E-05		
	Q ₆₇ 177E-05		
	Q ₆₈ 177E-05		
	Q ₆₉ 177E-05		
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	Q ₈₀ 177E-05		
	Q ₈₁ 177E-05		
	Q ₈₂ 177E-05		
	Q ₈₃ 177E-05		
	Q ₈₄ 177E-05		
	Q ₈₅ 177E-05		
	Q ₈₆ 177E-05		
	Q ₈₇ 177E-05		
	Q ₈₈ 177E-05		
	Q ₈₉ 177E-05		
	Q ₉₀ 177E-05		
	Q ₉₁ 177E-05		
	Q ₉₂ 177E-05		
	Q ₉₃ 177E-05		
	Q ₉₄ 177E-05		
	Q ₉₅ 177E-05		
	Q ₉₆ 177E-05		
	Q ₉₇ 177E-05		
	Q ₉₈ 177E-05		
	Q ₉₉ 17		

flow32a2	flow32a3	log_koc_48p	calculated parameter
Q ₁ 474	log_Koc 5.83		
diversion 33.1	Hk 6.85		
v _p 2.10E-03	Vp 2.40E-03	fw _{w-1} 0.725	
Q ₂ 1036	KI 2.87	fw _{w-2} 0.735	
Q ₃ 1193	Kg 384	fw _{w-3} 0.697	
Q ₄ 163		fw _{w-4} 0.687	
Q ₅ 163		fw _{w-5} 0.659	
Q ₆ 293		fw _{w-6} 0.657	
Q ₇ 393		fw _{w-7} 0.687	
Q ₈ 293		fw _{w-8} 0.777	
E ₁₀ 2770	K _d 3.00E-04	fw _{w-9} 0.777	
E ₂₀ 2770		fw _{w-10} 0.777	
E ₃₀ 1183	ΣV 0.500	fw _{w-11} 0.777	
E ₄₀ 384	V ₁ 0.87	fw _{w-12} 0.643	
E ₅₀ 400		fw _{w-13} 0.616	
E ₆₀ 400		fw _{w-14} 0.585	
E ₇₀ 560		fw _{w-15} 0.554	
E ₈₀ 670		fw _{w-16} 0.529	
E ₂₇ 7430		fw _{w-17} 0.680	
area32a1	photo ₁ x ₁ diff ₁ (m/d)	fw _{w-18} 0.680	
area32a2	photo ₂ x ₂ diff ₂ (m/d)	fw _{w-19} 0.680	
area32a3	photo ₃ x ₃ diff ₃ (m/d)	fw _{w-20} 0.680	
area32a4	photo ₄ x ₄ diff ₄ (m/d)	fw _{w-21} 0.680	
area32a5	photo ₅ x ₅ diff ₅ (m/d)	fw _{w-22} 0.680	
area32a6	photo ₆ x ₆ diff ₆ (m/d)	fw _{w-23} 0.680	
area32a7	photo ₇ x ₇ diff ₇ (m/d)	fw _{w-24} 0.680	
area32a8	photo ₈ x ₈ diff ₈ (m/d)	fw _{w-25} 0.680	
area32a9	photo ₉ x ₉ diff ₉ (m/d)	fw _{w-26} 0.680	
area32a10	photo ₁₀ x ₁₀ diff ₁₀ (m/d)	fw _{w-27} 0.680	
area32a11	photo ₁₁ x ₁₁ diff ₁₁ (m/d)	fw _{w-28} 0.680	
area32a12	photo ₁₂ x ₁₂ diff ₁₂ (m/d)	fw _{w-29} 0.680	
area32a13	photo ₁₃ x ₁₃ diff ₁₃ (m/d)	fw _{w-30} 0.680	
area32a14	photo ₁₄ x ₁₄ diff ₁₄ (m/d)	fw _{w-31} 0.680	
area32a15	photo ₁₅ x ₁₅ diff ₁₅ (m/d)	fw _{w-32} 0.680	
area32a16	photo ₁₆ x ₁₆ diff ₁₆ (m/d)	fw _{w-33} 0.680	
area32a17	photo ₁₇ x ₁₇ diff ₁₇ (m/d)	fw _{w-34} 0.680	
area32a18	photo ₁₈ x ₁₈ diff ₁₈ (m/d)	fw _{w-35} 0.680	
area32a19	photo ₁₉ x ₁₉ diff ₁₉ (m/d)	fw _{w-36} 0.680	
area32a20	photo ₂₀ x ₂₀ diff ₂₀ (m/d)	fw _{w-37} 0.680	
area32a21	photo ₂₁ x ₂₁ diff ₂₁ (m/d)	fw _{w-38} 0.680	
area32a22	photo ₂₂ x ₂₂ diff ₂₂ (m/d)	fw _{w-39} 0.680	
area32a23	photo ₂₃ x ₂₃ diff ₂₃ (m/d)	fw _{w-40} 0.680	
area32a24	photo ₂₄ x ₂₄ diff ₂₄ (m/d)	fw _{w-41} 0.680	
area32a25	photo ₂₅ x ₂₅ diff ₂₅ (m/d)	fw _{w-42} 0.680	
area32a26	photo ₂₆ x ₂₆ diff ₂₆ (m/d)	fw _{w-43} 0.680	
area32a27	photo ₂₇ x ₂₇ diff ₂₇ (m/d)	fw _{w-44} 0.680	
area32a28	photo ₂₈ x ₂₈ diff ₂₈ (m/d)	fw _{w-45} 0.680	
area32a29	photo ₂₉ x ₂₉ diff ₂₉ (m/d)	fw _{w-46} 0.680	
area32a30	photo ₃₀ x ₃₀ diff ₃₀ (m/d)	fw _{w-47} 0.680	
area32a31	photo ₃₁ x ₃₁ diff ₃₁ (m/d)	fw _{w-48} 0.680	
area32a32	photo ₃₂ x ₃₂ diff ₃₂ (m/d)	fw _{w-49} 0.680	
area32a33	photo ₃₃ x ₃₃ diff ₃₃ (m/d)	fw _{w-50} 0.680	
area32a34	photo ₃₄ x ₃₄ diff ₃₄ (m/d)	fw _{w-51} 0.680	
area32a35	photo ₃₅ x ₃₅ diff ₃₅ (m/d)	fw _{w-52} 0.680	
area32a36	photo ₃₆ x ₃₆ diff ₃₆ (m/d)	fw _{w-53} 0.680	
area32a37	photo ₃₇ x ₃₇ diff ₃₇ (m/d)	fw _{w-54} 0.680	
area32a38	photo ₃₈ x ₃₈ diff ₃₈ (m/d)	fw _{w-55} 0.680	
area32a39	photo ₃₉ x ₃₉ diff ₃₉ (m/d)	fw _{w-56} 0.680	
area32a40	photo ₄₀ x ₄₀ diff ₄₀		

[illegible]

1 1
2 9
3 20
4 40
5 176

[illegible]

80

matrix "M"

Heatmap showing the matrix "M" with rows labeled C1 to C20 and columns labeled D1 to D20. The color scale ranges from -3E-05 (dark blue) to 7E-05 (dark red).

inverse of "M"

Heatmap showing the inverse of matrix "M" with rows labeled C1 to C20 and columns labeled D1 to D20. The color scale ranges from 0 (white) to 0.0009 (dark red).

chemical concentration

Bar chart showing chemical concentration (Cd (pg/L)) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

Cd (pg/L) by segment

Bar chart showing Cd (pg/L) by segment for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "segment".

1st

biota concentration (segment 1, ng/g)

r (ng/g) by segment

Bar chart showing r (ng/g) by segment for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "segment".

Cd (pg/L)

Bar chart showing Cd (pg/L) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

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r (ng/g)

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Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

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Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

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Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

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r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

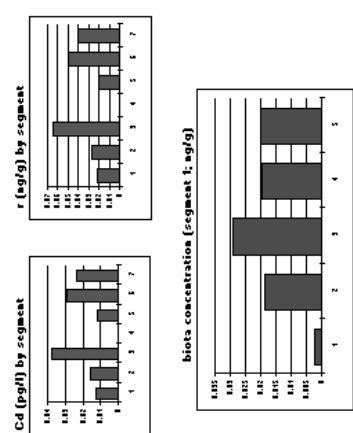
Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

Bar chart showing r (ng/g) for 20 different chemical components (C1 to C20). The y-axis ranges from 0 to 0.040045. The x-axis is labeled "solution concentration (ng/L)".

r (ng/g)

- 1 0.0024963
- 2 0.0166245
- 3 0.0232436
- 4 0.0195508
- 5 0.0201777



83

chemical concentration

congener	chemical concentration (pg/g)
C-1	0.0001
C-2	0.0001
C-3	0.0001
C-4	0.0001
C-5	0.0001
C-6	0.0001
C-7	0.0001
C-8	0.0001
C-9	0.0001
C-10	0.0001
C-11	0.0001
C-12	0.0001
C-13	0.0001
C-14	0.0001
C-15	0.0001
C-16	0.0001
C-17	0.0001
C-18	0.0001
C-19	0.0001
C-20	0.0001
C-21	0.0001

bioconcentration

congener	bioconcentration (pg/g)
C-1	0.0001
C-2	0.0001
C-3	0.0001
C-4	0.0001
C-5	0.0001
C-6	0.0001
C-7	0.0001
C-8	0.0001
C-9	0.0001
C-10	0.0001
C-11	0.0001

bioconcentration (segment 1, pg/g)

congener	bioconcentration (segment 1, pg/g)
C-1	0.0001
C-2	0.0001
C-3	0.0001
C-4	0.0001
C-5	0.0001
C-6	0.0001
C-7	0.0001
C-8	0.0001
C-9	0.0001
C-10	0.0001
C-11	0.0001